

# C

## HEATING

INDUSTRIAL AND DOMESTIC HEATERS  
BIOMASS HEATERS  
VENTILATION EQUIPMENT  
AIR DEHUMIDIFIERS  
ACCESSORIES



Specialist Distributor:  
Adremit Limited  
5A Commercial Courtyard  
Settle, North Yorkshire  
BD24 9RH  
[www.puravent.co.uk](http://www.puravent.co.uk)  
[info@adremit.co.uk](mailto:info@adremit.co.uk)

### Get In Touch



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Settle, North Yorkshire, BD24 9RH



# B

## BIOMASS



**BIOMANN**  
INDUSTRIAL PELLET HEATER  
**34**



**ECOPOL**  
FIREWOOD HEATER  
**36**

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# WHAT IS BIOMASS?

## GREEN FUEL

Biomass is a totally ecological and environmentally-friendly fuel that does not increase CO emissions into the atmosphere, because its emissions when used as fuel for combustion for heating systems are as polluting as its normally occurring decomposition in nature.

## BIOMASS TYPES

There are many fuels called biomass, such as firewood, stones, shells, etc. Today the biomass fuel mostly used is pellet, due to its high calorific power, low ash waste, and convenient storage.

## WHAT IS PELLET?

Pellet is a by-product from the timber and furniture manufacturing industry. It is manufactured into small Ø6x10mm cylinders with low humidity level, very small ash residue and a calorific power equal to 0.5 litres of gas oil. Its particular shape makes it easy to fuel stoves and furnaces automatically aided by a worm screw-like system.

### MAIN PROPERTIES OF PELLET

|                    |   |
|--------------------|---|
| Calorific power:   | 4,9 kW to 5.46 kW / h per kg fuel         |
| Humidity:          | 6%  |
| Ash residue:       | 0.6% (100 Kg. produces 0.6Kg of ash)      |
| Density:           | 650 kg/m³                                 |
| Referential price: | 0.20 € to 0.25 € / kg                     |
| Supply:            | 15kg bags, 1,000 kg big bags, or in bulk. |



**60% ENERGY SAVINGS.  
STOP THE CO2 EMISSIONS.  
EASY TO STORE.  
GUARANTEED SUPPLY.**

## ENERGETIC SAVING

Its saving is economically significant, as its price is below other fuels such as gas oil, propane gas or natural gas; the most expensive fuel, however, is electric power used for heat-pump type devices.

Shown in the following table:

The calorific value of each Fuel - PRICE by KW - estimated annual amount for a house of 100 m2 with a need for a heat output of 9,000 kW winter season.

| FUEL           | CALORIFIC POWER | PRICE/KW   | ESTIMATED FUEL AT 100 m² |
|----------------|-----------------|------------|--------------------------|
| PELLET         | 4.90 kW/kg      | 0.04 €/kW* | 360 €/annual             |
| NATURAL GAS    | 9.45 kW/m³      | 0.06 €/kW* | 540 €/annual             |
| PROPANE GAS    | 12.80 kW/kg     | 0.07 €/kW* | 630 €/annual             |
| HEATING GASOIL | 10.87 kW/litro  | 0.10 €/kW* | 900 €/annual             |
| ELECTRIC POWER | 1 kW            | 0.14 €/kW* | 1,260 €/annual           |



\* APPROXIMATE PRICES



www.metmann.com - Tel. 93 851 15 99 - Fax. 93 851 16 45

**MET MANN**

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## BIOMANN INDUSTRIAL WARM AIR HEATERS, WORKING WITH PELLET OR OTHER GRANULATED COMBUSTIBLE

### Description

The BIOMANN heaters are fully self-sufficient devices for the heating of not domestic buildings. Their special feature is that the combustible will use can be the pellet, shells or olive nuts (granulated biomass).

The biomass is currently the most economic and ecologic combustible, because his energetic saving may be between the 40%-60% regarding other traditional combustibles.

The initial range considers five models from 43 KW until 200 KW of heating power, with efficiencies higher to 90%.

The units are made up of 3 basic elements:

### Unit base

- Heater made up of a combustion chamber in AISI-304 stainless steel, with tubular exchanger designed to obtain performances higher to 90%.
- External structure made in galvanized steel, painted in oven with dust polyester paint.
- the parties exposed to the heating are fully isolated by an air space patented by METMANN, or thanks isolating fibre big thickness.
- Access door to the combustion chamber and exchanger with quick opening system.
- Ventilation system placed at the combustion chamber bottom.
- Automatic ashes removal system with ashes box, all included.
- Exhaust smokes system in the way to reach a correct depression into the combustion chamber.
- Combustible tank with integrated control panel.

### Automatic burner, for pellet or other granulated combustible

- Completely automatic burner, programmable, including cleaning system and the corresponding worm gear pellet feeder.

### Air impulsion mouths or air plenums 4 sides

- The air impulsion mouths and the air plenums 4 sides, these accessories are used to orientate the propelled air.
- The standard heater is prepared to assembly a ducts net to channel the warm air.
- We are at your disposal to advise you about the amortization time using our BIOMANN heaters, in front of different heaters using other combustibles.

NEW  
GENERATION,  
HIGHER  
PERFORMANCE



- STRONG AND DURABLE HEATERS.
- COMPLETELY ELECTRONIC CONTROL.
- PERFORMANCE > 90 %
- WORKING WITH PELLET AND OTHER GRANULATED COMBUSTIBLES.
- BURNER WITH AUTOMATIC CLEANING SYSTEM
- AUTOMATIC ASHES REMOVAL
- EXHAUST SMOKES SYSTEM TO ENSURE THE CORRECT DEPRESSION INTO THE COMBUSTION CHAMBER
- ENERGETIC SAVING UNTIL THE 60%



SMOKES EXHAUST SYSTEM TO THE BACK SIDE TO ENSURE THE CORRECT DEPRESSION INTO THE COMBUSTION CHAMBER



EXCHANGER AND COMBUSTION CHAMBER WITH A WORM GEAR TO REMOVE THE ASHES



BOX TO EXTRACT THE ASHES PUT INSIDE



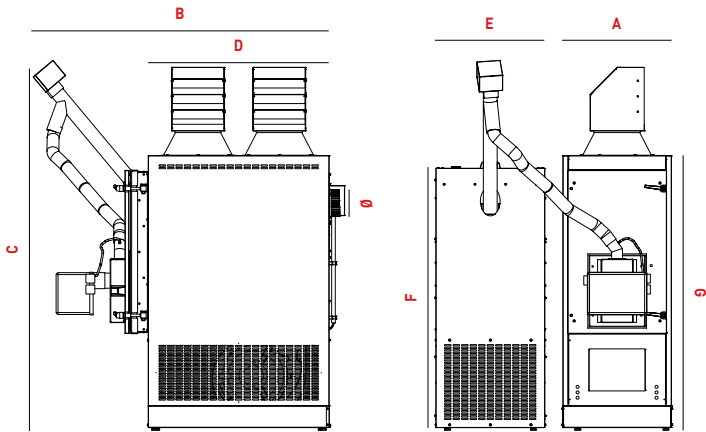
CONTROL PANEL WITH SPEED INVERTER FOR THE EXHAUST SMOKES SYSTEM

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| DIMENSIONS MM |      |      |      |      |     |      |      |     |
|---------------|------|------|------|------|-----|------|------|-----|
| MODEL         | A    | B    | C    | D    | E   | F    | G    | Ø   |
| BM 050        | 550  | 1301 | 1806 | 805  | 550 | 1430 | 1500 | 120 |
| BM 070        | 600  | 1510 | 1981 | 1000 | 603 | 1430 | 1500 | 150 |
| BM 105        | 700  | 1610 | 2073 | 1093 | 603 | 1430 | 1786 | 150 |
| BM 160        | 904  | -    | 2418 | 1702 | 603 | 1430 | 1932 | 200 |
| BM 200        | 1037 | -    | 2542 | 2030 | 603 | 1430 | 2124 | 200 |

| MODEL                               | UNITS  | BM-050 | BM-070 | BM-105 | BM-160 | BM-200 |
|-------------------------------------|--------|--------|--------|--------|--------|--------|
| MAXIMUM NOMINAL POWER               | kW     | 43     | 69     | 100    | 160    | 200    |
| MAXIMUM USEFUL POWER                | kW     | 38.7   | 62.1   | 90     | 144    | 180    |
| THERMAL PERFORMANCE                 | %      | 90     | 90     | 90     | 90     | 90     |
| MAXIMUM PELLET CONSUMPTION          | kg/h   | 8.60   | 13.80  | 20.00  | 32.00  | 40.00  |
| CONSUMPTION WITH AMBIENT THERMOSTAT | kg/h   | 6.00   | 9.60   | 14.00  | 22.00  | 28.00  |
| PELLET TANK CAPACITY                | litros | 190    | 190    | 190    | 190    | 190    |
| VOLUM TO HEAT (0,04 kW/m³)          | m³     | 968    | 1553   | 2250   | 3600   | 4500   |
| THERMAL RISE                        | °C     | 28     | 36     | 37     | 38     | 31     |
| AIRFLOW                             | m³/h   | 4,000  | 5,000  | 7,100  | 11,000 | 17,000 |
| AVAILABLE PRESSURE FOR DRIVEN AIR   | Pa     | 200    | 130    | 120    | 120    | 120    |
| AIR MOTOR-FAN POWER                 | kW     | 0.79   | 0.79   | 1.10   | 2.20   | 4.00   |
| BURNER POWER                        | kW     | 0.53   | 0.53   | 0.645  | 0.80   | 0.85   |
| ELECTRIC TENSION                    | -      | A      | A      | B      | B      | B      |

\*A 230V/I/50HZ. B 400V/III/50HZ



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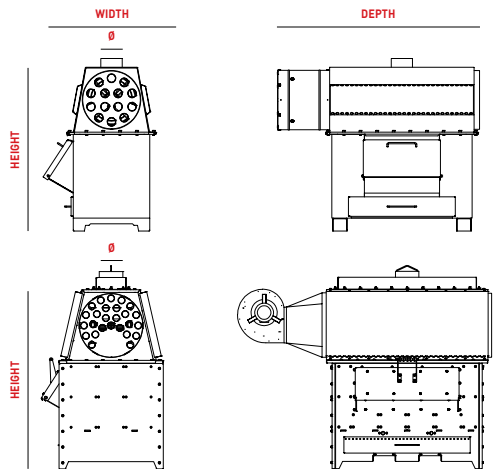




**ECOPOL** FIREWOOD HEATER



- ROBUST STURDY EQUIPMENT.
- PERFORMANCE ≥ 80%
- OPERATION FIREWOOD AND WOOD WASTE.
- AXIAL OR CENTRIFUGAL FAN.
- DAMPER MANUAL.



**DESCRIPTION**

Heater for non-domestic sites where firewood residue is available.

Sturdy and enduring equipment including a very silent air fan that provides hot air, thus reaching comfort temperatures in a short time.

**MAIN FEATURES**

- Very silent equipment.
- Performance higher than 80%
- EC certified.
- Large mouth and box for large ash collection.
- Combustion fireplace wholly finished in refractory bricks.
- Finishing in anti-heat paint resistant to 600°C.
- Air fan interchangeable from one side to another.
- Pipe attachment for air distribution to nearby rooms (Model EP-100). (modelos EP-50-C y EP-100-C).
- Damper manual.

**ACCESSORIES**

- Protection cage.



PROTECTION CAGE.





EP-100-C



EP-050-H

| MODEL                           | UNITS | EP-050-H      | EP-050-C      | EP-100-C       |
|---------------------------------|-------|---------------|---------------|----------------|
| CALORIFIC POWER                 | kW    | 50            | 50            | 100            |
| LOAD DOOR (WIDTHxHEIGHT)        | mm    | 510X280       | 510X280       | 835X280        |
| AIR FLOW                        | m³/h  | 1.700         | 1.700         | 3.400          |
| MOTOR                           | kW    | 0,16          | 0,12          | 0,59           |
| ELECTRIC TENSION                | -     | 230V/I/50hz   | 230V/I/50hz   | 230V/I/50hz    |
| FAN                             | -     | Helicoidal    | Centrífugo    | Centrífugo     |
| DIMENSIONS (WIDTHxDEPTHXHEIGHT) | mm    | 785X1395x1190 | 785X1860x1190 | 1015X2110x1630 |
| SMOKE OUTLET                    | mm    | Ø150          | Ø150          | Ø200           |

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